

# Canton Christian College

College of Agriculture

AGRICULTURAL
BULLETIN 3
CATALOGUE
1922-23

CANTON, CHINA

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of the

# COLLEGE OF AGRICULTURE

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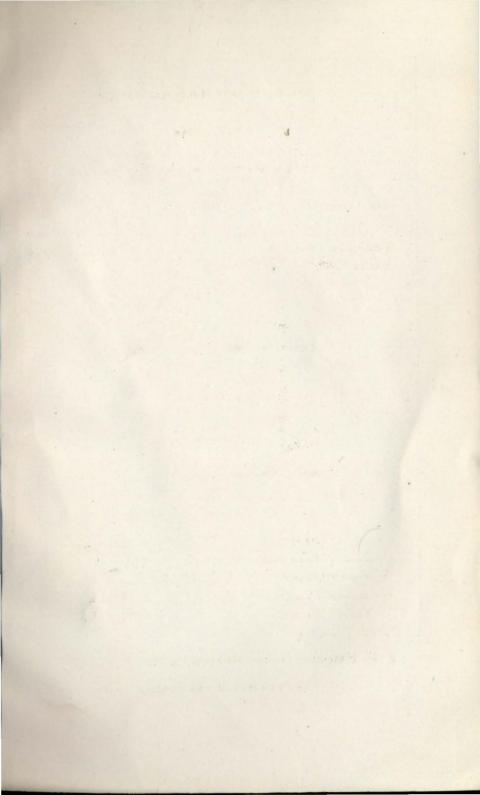
# CANTON CHRISTIAN COLLEGE

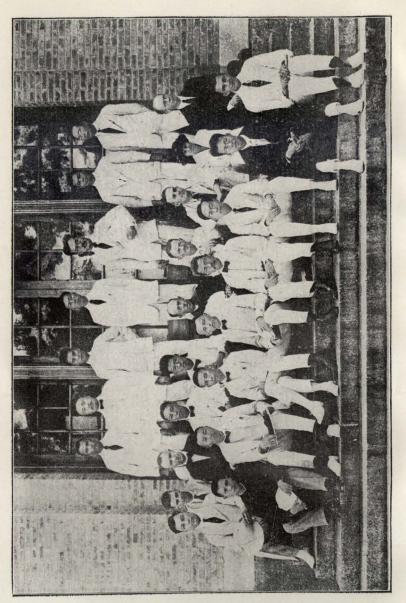
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# Canton Christian College

Agricultural Bulletin No. 3

# CATALOGUE

OF

THE COLLEGE OF AGRICULTURE

ACADEMIC YEAR 1922-23

CANTON, CHINA May, 1922

Printed by the College Press

#### OFFICERS OF ADMINISTRATION

#### CANTON CHRISTIAN COLLEGE

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# Officers of Schools

## CANTON CHRISTIAN COLLEGE

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# Administrative Staff

# COLLEGE OF AGRICULTURE

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#### Addenda and Errata

- PAGE 24. Add to list of Accredited Schools:

  Kwong Yit Academy
  - ,, 33. For Hongkong Agricultural Society read China Agricultural Research Association. (The name in Chinese characters is correct as printed.)
  - ,, 34. Add to list of Prizes:

Schauffler English Prizes, one for the best work in required English, and one for the best work in an elective course in English, will be awarded in 1923.

ALLEN PRIZE, awarded for the best essay by a student on the topic, "What is Necessary for the Promotion of International Friendship?"

# College of Agriculture Faculty and Staff

# 1922-23

- 及文士 CHARLES KEYSER EDMUNDS, B.A., Ph. D., President;
  Professor of Physics, and Director of Physical Laboratory.
- B. A., Johns Hopkins University, 1897, Ph. D., 1903; Professor of Physics, Canton Christian College, 1903-; Vice-President, 1906; President, 1907-; Observer in Charge, Magnetic Survey of China, Carnegie Institution of Washington, 1905-17.
- 鍾樂光 CHUNG WING KWONG, Chinese Second Degree, Vice-President.
- FIRST DEGREE, Chinese Government Examinations, 1884; SECOND DEGREE, 1894; Head of Chinese Department, Canton Christian College, 1900-08, Chinese Dean, 1909-16; Commissioner of Education for Kwangtung Province, 1911-13; Study and travel in America, 1913-16; Vice-President, 1917-
- 高替甫 GEORGE WEIDMAN GROFF, B.S., M.S., Dean and General Director, College of Agriculture; Professor of Horticulture.
- B.S., Pennsylvania State College, 1907, M. S., 1918; Instructor, Canton Christian College, 1907-10; Professor of Horticulture 1912-; Director of Agricultural Work, 1912-21; Collaborator of United States Department of Agriculture, Bureau of Plant Industry, 1915-17, 1921-; Field Assistant, 1917-21. Dean and General Director, 1921-
- 傳保光 Fu Po Kwong, B.S. M.S., Professor of Agricultural Manufacturing; Director of Agricultural Industries.
- B.S. in Agriculture, Michigan Agricultural College, 1914; M.S., 1916; Seed Selector, D.M. Ferry Seed Farm, near Detroit, Mich., 1914-16; Superintendent, M. Y. Sin Co., Hongkong, 1917-19; Instructor in Agriculture, Canton Christian College, 1920-22; Professor and Director 1922-
- 羅飛雲 CARL OSCAR LEVINE, B.S., M.S., Professor of Animal Husbandry; Director of Agricultural Research and Experiments.
- B.S in Agriculture, Kansas State Agricultural College, 1914; M.S., Iowa State College, 1920; Instructor, Canton Christian College, 1916-19; Curator of Herbarium, 1916-19; Acting Director of Agricultural Work, 1917-18, 1920-21; Associate Professor, 1919-22; Professor and Director, 1922-

- 陳輯五 CHAN TSAP NG, Chinese First Degree, Senior Professor of Chinese.
- FIRST DEGREE, Chinese Government Examinations, 1902; Instructor in Kwangtung schools, 1902-07; Instructor, Canton Christian College, 1908-13: Acting Chinese Dean, 1913-16; Associate Professor of Chinese, 1913-17: Senior Professor, 1918-
- 格 禮 John Cornelius Griggs, B.A., Ph. D., Associate Professor of English.
- B. A, Yale University, 1889, Ph. D., Leipsic, 1893; Professor, History of Music, Metropolitan College of Music, 1893-1898; Teacher of Singing in New York City and at Vassar College, 1897-1918; Associate Professor of English, Canton Christain College, 1919-
- 考 活 CHARLES WALTER HOWARD, B.A., M.S., Professor of Sericulture.
- B. A., Cornell University, 1904; M. S., University of Minnesota, 1913; Assistant Entomologist, Transvaal Department of Agriculture, 1905-06; Entomologist, 1906-08; Entomologist, Department of Agriculture of Portuguese East Africa, 1908-11; Special Assistant, Rockefeller Institute for Medical Research, 1911; Instructor in Entomology, Minnesota Agricultural College, 1912-13; Assistant Professor of Entomology and Parasitology, 1913-17; Associate Professor, 1917; Professor of Biology, Canton Christian College, 1917-22; Curator of Herbarium, 1918-20; Curator of Museum, 1918-22; Professor of Sericulture, 1922-. On leave 1922-23.
- 梁敬敦 CLINTON NEVIUS LAIRD, B. A., M. A., Professor of Chemistry.
- B.A., University of Pennsylvania, 1903; M. A. 1905; Instructor, Canton Christian College, 1905 09; Bursar, 1907-14; Professor of Chemistry, 1910-; Acting Principal of the Middle School, 1913-15; Acting Dean, College of Arts and Sciences, 1921-22; Dean, 1922-.
- 沈會儒 EDWARD SHIM, B.S., Instructor in Charge of Agronomy.
- B.S. in Agriculture, Kansas State Agricultural College, 1916; Miscellaneous experience teaching and investigational work in agriculture in Hawaii and the Philippines, 1916-21; at Canton Christian College, in charge of work in Agronomy, 1921-
- 布士維 KARL PORTER BUSWELL, B.A., Instructor in Biology, Curator of Herbarium.
- B.A., University of Minnesota, 1920; at Canton Christian College, 1920-Curator of Herbarium, 1920-

金巴路 ARTHUR SHACKLETON CAMPBELL, B.A., Instructor in Biology. B.A., Pomona College, 1920; at Canton Christian College, 1921-

陳受頤 CHAN SHAU YI, B.A., Instructor in Chinese Literature.

B.A., Canton Christian College, 1920; at Canton Christian College, 1920.

陳紹舜 CHAN SHAO SHUN, B.S., M.S., Instructor in Agriculture.

B.S. in Agriculture, University of Illinois, 1919; M.S., Mississippi Mechanical and Agricultural College, 1920; Director of Agricultural Experiment Station, Foochow, 1921; at Canton Christian College, 1922- ; in charge of translations, College of Agriculture, 1922-

張璋坤 CHEUNG CHEUK KWAN, B.S., Director of Agricultural Education; Instructor in Horticulture.

B.S. in Agriculture, Cornell University, 1916; at Canton Christian College, 1921- .

趙恩賜 CHIU YAN TSZ, B.S., M.A., Assistant Professor of Chemistry.

B.S., University of California, 1913; M.A., Columbia University, 1915; Instructor in Chemistry, Canton Christian College, 1915-1922; Assistant Professor 1922-

鍾寶獎 CHUNG PAU SIEN, B.S., M.S., Instructor in Animal Husbandry.

B.S. in Agriculture, Iowa State College, 1917; M.S., University of Illinois, 1918; Official Inspector of Dairies in Iowa, 1918; Y.M.C.A. Secretary, Chinese Labor Battalion in France, 1918-21; at Canton Christian College, 1922-.

方孝常 WALTER LEON FUNKHOUSER, B.S., Instructor in Animal Husbandry.

B 3. in Articulture, Penasylvania State College, 1920; at Canton Christian College, 1919-22. On leave 1922-23.

簡帝醫 FRANK KAN, B.S., M.S., Instructor in Agronomy.

B.S. in Agriculture, Oregon Agricultural College, 1916; M.S., Texas Agricultural and Mechanical College, 1918; at Canton Christian College, 1922.

林建中 LAM KIN CHUNG, Extension Assistant in Swatow.

李士瀛 Lei Sz Ying, B.A., Instructor in Rural Sociology, and Executive Secretary of Board of Management.

B.A., Young Men's Christian Association Training School, Chicago, 1920; at Canton Caristian College, 1920-

莫古黎 FLOYD ALONZO McClure, B.A., B.S., Instructor in Horti-culture.

B.A., Ohio State University, 1918; B.S., 1919; at Canton Christian College, 1919-22. On leave 1922-23.

袁漢邦 YUEN HON PONG, Assistant in Agricultural Industries.

Head Forester, Botanical and Forestry Department, Hongkong, 1908-18; at Canton Christian College, 1921-

張世雄 CHEUNG SAI HUNG, Assistant in Horticulture.

Graduate Kwangtung Agricultural College

程葆元 CHING PO YUEN, Artist.

鄧其芝 EDWARD DING, B.S., M.S., Assistant in Horticulture.

B.S. in Agriculture, Oregon Agricultural College, 1920; M.S., 1921; at Canton Christian College, 1922-

高綺梨 ELIZABETH HOWRY GROFF, Research Assistant.

Secretary, Canton Christian College, 1915-19; Botanical Assistant, Office of Crop Physiology and Breeding Investigations, United States Department of Agriculture, Washington, D.C., 1919-21; Research Assistant in cooperative work with Office of Crop Physiology and Breeding Investigations, 1921-

何 亮 Hoh Leung, B.S., Assistant in Research and Experiments, College of Agriculture.

B.3. in Agriculture, Canton Christian College, 1922.

郭華秀 KWOK WA SHAU, Assistant in Horticulture.

Graduate Kwangtung Agricultural College, 1916; in charge of citrus cooperative work with United States Department of Agriculture, 1921.

劉曾輝 LAU CHUN FEI, Assistant in Agronomy.

Graduate Peking Agricultural College,

李威士 LEI WEI Sz, Assistant in Sericulture.

邵堯年 SHIU IU NIN, Assistant in Agronomy and Horticulture.

黄澤曾 Wong CHAAK Po, B.S., Assistant in Sericulture.

B.S. in Agriculture, Canton Christian College, 1922.

# Location of the College

THE CANTON CHRISTIAN COLLEGE, known in Chinese as 衛南大學 Ling Naam Taai Hok, is situated in a suburb of Canton, the metropolis of Kwangtung Province. The College property lies along the Pearl River, on the north shore of the island of Honam, two and a half miles east of the center of the city. Canton is easily reached by either train or river

steamer from the port of Hongkong, ninety miles away.

The College has a campus of about three hundred acres in the open country, and controls about a quarter mile of river front. Most of the buildings are on elevated land from 40 to 70 feet above the river, which affords beautiful views in all directions. There are fifty-three permanent buildings of brick and reinforced concrete, as well as many structures of less substantial character.

The College is situated near the village of Honglok, and has a post office known as *Honglok* (康樂), an agency under the Canton postal administration, on its campus. The address of the College is Canton (廣州康樂).

The College launch maintains daily service to Canton, and small boats may be secured at practically all hours of the day from the end of the Bund near the Canton-Kowloon Railway station.

# History of the College

THE HISTORY of the Canton Christian College on its present site dates from 1904.

Its rapid expansion and success during this time owes much, however, to the bold aims and persistent efforts of a small group of men during the twenty years previous. In 1884 one of the Presbyterian missionaries at Canton, Rev. B. C. Henry, returned to America with a scheme to lay before his board for a Christain College in Canton, and the next year one of his colleagues, Rev. A.P. Happer, made another appeal for the founding of such an institution to serve all branches of the Christian church in South China. It was to aim at the highest educational efficiency, to use English as the medium for teaching Western subjects, and to have as broad a purpose as the

American University at Beirut. Though five of the seven who signed the first prospectus were connected with the Presbyterian mission board, they made their plan in an interdenominational spirit. There were many missionary societies operating around Canton and all needed well-trained workers for their growing churches and elementary schools, and for contact with the well-to-do classes, who have always been so hard to reach through evangelistic work alone. South China, moreover, needed leaders of Christian faith and ideals in every sphere of life.

Dr. Happer had received a petition from no less than four hundred Chinese, including the most prominent officials, scholars, gentry and merchants of Canton, requesting that a high grade school be started under joint American and Chinese auspices; and in 1898 President Wisner received a petition signed by fifty-four pastors, licentiates, teachers and elders of all denominations in and near Canton urging that the College be maintained in Canton to serve the church as a whole.

Mr. Henry Martin, Dr. Happer himself, and others formed the initial fund, and the school was incorporated under the laws of the state of New York in 1893. For a time the Trustees owned the property and carried on the school of the Presbyterian Mission, Fati, but in 1898 they resold this property to the Mission, and the next year started a separate school with Rev. O. F. Wisner as president. This was moved to Macao during the Boxer disturbances and remained there four years while the small rice fields, bamboo groves, ponds and innumerable grave plots near Canton, on which the College could be built, were gradually being acquired.

A part of the original fund was invested in a large three-story classroom building, ant-proof and fire-proof from cellar to roof, the first of its kind in China. For four years more the College waited for its second permanent building. Then in 1909 came a dormitory from Chinese friends who had proved to themselves the worth of the school, and this was rapidly followed by five more dormitories, until the sums specially contributed by Chinese toward the upbuilding of the institution amounted to hundreds of thousands of dollars.

About 1909 American friends began giving residences for the staff, a water system, etc., and construction has gone forward without interruption, even by the European War. There are now twenty-two houses on the hill, and above them all, Grant Hall, a splendid

administration building provided by Mrs. J. S. Kennedy in 1915. That year saw completed, in another commanding position and also of special architectural interest, an auditorium and Christian Association building, the gift of Mr. Ambrose Swasey.

More recently the college has received a notable addition in the two buildings donated by its first Chinese Trustee, Mr. Ma Ying Piu. One is the Infirmary and the other is a guest house near the entrance gate. The generosity of these and many other liberal givers is specially remembered each year on Founders Day, an occasion when it is possible, too, for the whole College community to express its gratitude to the one who has had a larger share than any other in making the present institution, Mr. W. Henry Grant, for twenty-five years the untiring Secretary of the Trustees.

The fifteenth anniversary of the establishing of the college on its present site was celebrated by a Pageant on November 29, 1919. More than four thousand guests were entertained and given every facility for seeing the material growth and future prospects of various departments. An important feature marking this anniversary was the completion of a large dormitory, Java Hall, for the exclusive use of students in the two Colleges. In 1921 a sixth large dormitory, Chang Hall, was completed. This has been especially designed for students returning from distant Chinese settlements to acquire an education in the homeland. Another dormitory, also to be used only by College students, is now in the course of erection. The funds for this building were secured by the students in campaigns which they conducted during their vacations.

Two other new structures, the Sericulture Building given by the Silk Association of America, and its companion, the Sericulture Extension Building given by Mr. Marcus Frieder, were completed in 1921 and are now in full use.

More important however than grounds and physical equipment to any institution are those less tangible but no less real assets of purpose, ideals, courage, wisdom and organization. The declaration of the College was as follows: "The purpose of the Trustees of Canton Christian College is to establish in Canton and adjacent territory in China, an institution of learning of the highest standards of educational efficiency, under Christian influences." In striving toward this end many problems new and peculiar are met, apart from such as accompany ordinary educational work. That progress in

these lines should be commensurate with growth in buildings and organization has been possible only through the exercise of great wisdom by both the authorities in New York and the workers in the field. The plant is used to capacity, and so far as those directly interested in the work may judge, the measure of educational result in the various schools is fairly indexed by the physical growth of the institution.

The Elementary School, started in a near-by village as a Student Christian Association enterprise, has been transferred to the campus and become a regular model department, with five attractive cottages built with gifts from Chinese, each having dormitory and classroom space for thirty children. A central hall, the gift of Mr. Tan Kah Kee of Singapore, provides an assembly room and a demonstration classroom, as well as a central kitchen for the group of cottages.

In the interest of establishing high standards all along the line, and as a foundation for its own collegiate work, the Canton Christian College felt from the first the necessity of maintaining a strong secondary school. Indeed thus only, through a Middle School, did the college department become a possibility. And now, even with encouraging numbers of college applicants coming from the mission schools and elsewhere, the adequate development of the Colleges of Arts and Sciences and of Agriculture must for many years still depend largely upon the feeding capacity of the Canton Christian College Middle School. In addition, however, to preparing students for college, the Middle School aims to give an all-round training, and to meet the needs of those who must go out into active life without further study.

While the activities of the Christian Association have been steadily expanding and several dependent village schools opened, the increasing number of those who have joined the Christian church while students has been a source of great encouragement.

In athletics the students have won an enviable prestige among Canton and Hongkong schools, besides excavating with their own hands a large swimming pool near the river, an unfailing source of physical benefit as well as real enjoyment.

The London Missionary Society in 1915 set apart one of its workers to become the professor of religion in the College. This is the most striking though not the only way in which the missions

have sought to cooperate and it will be followed, it is to be hoped, by similar steps on the part of others.

In 1907 an agriculturist joined the staff and the college garden, begun at that time, has developed into the College of Agriculture which is now conducting all the general agricultural instruction, and which is projecting important lines of service in agricultural research, extension and industry. The College of Agriculture was organized in the year 1921 under a separate Board of Management which meets at Canton and which is responsible for its growth and development. The Kwangtung Provincial Government makes liberal grants to the College of Agriculture, and the balance of its budget is financed by other Chinese friends. Various western interests, including the Pennsylvania State College and Kansas State Agricultural College groups, are fostering the development with both technical and financial assistance.

So far more than a hundred students have gone from the Canton Christian College to American and European universities. The aim, however, is to prepare students at Canton to give as effective service to their country as if they had studied abroad.

In 1916 changes were introduced providing for a College proper, with a student life distinct from that of the Middle School, so that the nucleus of college students which had existed for many years then became a true college community. This phase of the work of the Canton Christian College is being emphasized so as to meet the pressing need in South China for men of the highest training to become the teachers and leaders of their people.

A great step forward in the unification and strengthening of education in the province was taken in January 1920 by the Canton Missionary Conference and the Kwangtung Christian Educational Association in projecting a system of University Colleges. In the Program of Advance then adopted the following recognition and recommendation were made: "Article 14. The College of Arts and Sciences of the Canton Christian College shall be the College of Arts and Sciences of the system. The Schools of Education and Agriculture should be developed on the basis of the work already under way in these departments of the Canton Christian College, which should also further develop its courses in Commerce (Business Administration) and introduce courses in Journalism. In order to enable the Canton Christian College the more adequately to meet the

expanding needs of the Program of Advance, the various missions are urged to contribute to the Canton Christian College men specially qualified for work in its existing or proposed schools of Collegiate grade."

Reference to later pages of this catalogue will show that the College is now offering well-rounded four year courses in Agriculture, Business Administration, Chemistry and Education in addition to the courses in General Arts.

# The College Library

HE COLLEGE LIBRARY, now in Grant Hall, has two distinct sections,—one in Chinese, and one in foreign languages, chiefly English. The English collection contains approximately 13,500 volumes and the Chinese books number about 29,500. Several departments are also equipped with books, loaned from the main collection.

The library aims to serve the needs of students in the various college courses. Besides the material in the library itself, faculty members customarily place their private libraries at the service of students, so that students have access to not less than 17,000 bound volumes on the campus. Some of these private libraries, particularly in physics, chemistry, the social sciences and education, are unusually well-selected and valuable.

Over two hundred periodicals, weeklies and monthlies, general and technical, are kept on file, the more valuable ones being bound, and used for departmental research work.

Daily newspapers from Canton, Hongkong, Peking, Shanghai and Tokyo are taken. The Canton Times and the weekly edition of The North China Herald are bound for permanent shelving.

The foreign library is classified according to the Dewey decimal system, with the exception of the books on China, for which there is special classification. As far as available, Library of Congress cards are used, and further, the library subscribes to all cards issued relating to China, whether the books represented by the cards are in the College Library or not. This bibliography of China is kept in a separate file and, containing both author and title cards, affords an index to a large part of the existing foreign literature on China.

The library is a repository for publications of the Carnegie Institution of Washington, the Carnegie Endowment for International Peace, the United States National Museum, many departments of the United States Government and several administrations of the Chinese Republic, as well as for publications of other governments.

The Library is open both day and evening. Students have direct access to the shelves.

# The College Museum

HE COLLEGE MUSEUM, located in Martin Hall, has a selection of articles and specimens of general and scientific interest. In the collection are over a hundred stuffed birds, 250 bird skins, about 500 specimens of woods, about a thousand coins, including many ancient Chinese coins, a number of fossil and mineral specimens, collections of local butterflies, moths, insects and reptiles, several industrial exhibits, and miscellaneous articles of archeological, scientific and popular interest. The museum is equipped with proper cases for the preservation and display of its specimens.

# The College Herbarium

THE COLLEGE HERBARIUM is the center for the study of the flora of the region which the college influences. Various agencies are at work with the college in assembling scientific and economic data concerning the plants preserved in the herbarium. The acquisition of local and literary plant names, and their relation to Chinese literature, has been an important phase of the undertaking. A Latin-Chinese index to the plants in the herbarium has been prepared by the college and photographed in the Office of Crop Physiology and Breeding Investigations of the United States Department of Agriculture.

All of the material has been named by Prof. E. D. Merrill of the Philippine Bureau of Science, to whom the college is indebted, as also to Mr. Walter T. Swingle of the United States Department of Agriculture, for assistance in the organization of the herbarium. The collection now contains more than eight thousand sheets of Kwangtung plants representing at least three thousand species, a number of which are newly described. One family, one genus and more than thirty species are reported new to Kwangtung and at least ten species new to China.

# **Publications**

THE COLLEGE has issued a few text-books in English and in Chinese and issues special bulletins upon scientific subjects. A list of these is given elsewhere in this catalogue.

南大 THE CANTON CHRISTIAN COLLEGE MAGAZINE, or NAAM TAAI MAGAZINE, a bulletin of information on college matters, is published quarterly in Chinese and is mailed to subscribers for \$0.60 per year.

南風 NAAM Fung, also in Chinese, is a publication of a literary nature carried on by the students. The subscription price is \$1.00 per year.

THE STUDENT CHRISTIAN ASSOCIATION issues a weekly news sheet (費育年報) in Chinese which gives current information as to what is going on at the school. The subscription price for the weekly is \$0.60 per year.

THE DAILY METEOROLOGICAL RECORD, a bulletin issued quarterly, gives a record of the meteorological observations made each day at the Freeman Meteorological Observatory, together with monthly summaries.

The College of Agriculture issues a monthly agricultural extension circular in Chinese, an agricultural quarterly in Chinese and a semi-annual agricultural review in English.

The following bulletins and leaflets are issued to give information about the school, and may be obtained by writing to the head of the school concerned. The leaflets are free; the charge for the bulletins is ten cents, except to patrons of the school.

#### NAME

Calendar
Catalogue of Colleges of Arts and
Sciences, and of Agriculture
Catalogue of College of Agriculture
Middle School Catalogue
Elementary School
Summer Session
"Taai Koon" (大觀)
"Canton Christian College"

#### CHARACTER

Chinese leaflet on dates, fees, entrance, etc.

English bulletin on courses, regulations, etc.

Chinese bulletin on courses, regulations, etc. Chinese bulletin on courses, regulations, etc. Chinese leaflet on courses, fees, etc. Chinese leaflet on courses, fees, etc. Chinese bulletin, illustrated, for contributors. English booklet, illustrated. Price \$1.00.

# College Organizations

#### COLLEGE STUDENT UNION

THE COLLEGE STUDENT UNION is the official organization of the entire College student body. It enjoys liberal powers of self-government and control of matters of general student interest. Its constitution provides for an executive committee, and special committees responsible for discipline, athletics, boarding and social matters. It elects its officers and committee-men each semester.

#### STUDENT CHRISTIAN ASSOCIATION.

The Student Christian Association provides students with facilities for voluntary religious activities and for training in social service. Swasey Hall, the gift of Mr. Ambrose Swasey of Cleveland, is a well equipped center for such purposes. Religious meetings and study classes for students are held regularly under the direction of committees. The students, sometimes assisted by the members of the College faculty, conduct meetings for the servants on the College campus and for villagers. The Association also has organized under its educational department day and night schools for servants and villagers. The social department provides students and community with entertainments. Reading and game rooms are also maintained in Swasey Hall. The Association employs a General Secretary, publishes a weekly paper in Chinese, and a fortnightly newsletter in English.

#### STUDENT COUNCIL

The Student Council is composed of the following members: the President of the Student Christian Association, the President of the College Student Union, the Middle School Student Representative, and the President of the Canton Christian College or his appointee. Its function is to provide efficient means of conducting any affairs that concern the students of more than one school. It may, when necessary, call meetings of the students through the proper representatives.

#### ARTS AND SCIENCE CLUB

The Arts and Science Club is an organization of the Faculty

and advanced students of the College the object of which is to stimulate its members to keep abreast of modern scientific ideas and to encourage reports on original investigations.

Membership may include any of the English-speaking Faculty of the entire College. All other English-speaking persons on the campus, including Freshmen, Sophomores, Juniors and Seniors, are eligible for associate membership. There are no dues.

Regular meetings are held once a month and special meetings are called from time to time to hear distinguished visitors.

#### AGRICULTURAL SOCIETY

The purpose of the Agricultural Society is to develop interest in the agricultural work of the College, and to promote agricultural education, investigation and extension in South China. Membership is active, associate, or honorary. The society meets on the first Monday of each month during the academic year.

#### ECONOMICS ASSOCIATION

The faculty and students of economics and business administration have organised the Economics Association to promote interest in and investigation of important economic questions. Monthly meetings are held and students and teachers wishing to join are welcomed.

# EDUCATION CLUB

An Education Club has been organized by members of the faculty and students of education to promote interest in and investigation of important educational questions. Teachers and students wishing to join will be welcomed and may always obtain information at the Education office.

# ATHLETICS

Students are expected to take regular daily exercise and play-ground space is provided that all may take part in athletic games. There are five foot ball fields, ten basket ball courts, four volley ball courts, fifteen tennis courts, a swimming pool, and a running track available for use. The College has teams in the various athletic leagues in Canton, competes with Hongkong schools and is represented in each Far Eastern Olympic competition.

#### COLLEGE BAND

A band of twenty-five pieces is under the leadership of a specially trained member of the staff. Students wishing to join may obtain information at the office of the Dean.

#### COLLEGE BOOKSTORE

The College Bookstore, located in Grant Hall, maintains a stock of text-books and other school supplies required by students. These are sold practically at cost.

#### COLLEGE BANK

The College Bank receives current and time deposits, and furnishes local bank facilities. Parents and guardians will find it convenient in connection with the handling of funds for students to send such funds to the bank with instructions regarding payments.

## COLLEGE PRESS

The College Press serves the College and community for job and book printing, both in English and Chinese. Many of the English bulletins of the College, including this catalogue, are printed by the College Press.

# Organization of the Schools

THE CANTON CHRISTIAN COLLEGE comprises three grades of schools: The Elementary school (7 years), the Middle School (4 years, including the Sub-freshman year), and the Colleges of Arts and Sciences, and of Agriculture (each 4 years, excluding the Sub-freshman year).

The Elementary School, housed in a series of six buildings of its own, and forming a complete and separate administrative unit, consists of a lower primary department of four years for boys and girls, and a higher primary department of three years for boys only. Covering the age of childhood from about eight to fifteen, it aims to provide an atmosphere of both home and school by giving each class and its two teachers a cottage as a family center for its life and study.

The Middle or Secondary School, corresponding to the high school or college preparatory in the United States, is a middle school for boys only and meets the special problems of the formative years beyond thirteen or fourteen. Girls may be admitted into the fourth year (Sub-freshman) class.

For administrative purposes the fourth middle school year, in the organization, temporarily is included under the Colleges as a Sub-freshman year. At present there are, therefore, only three years under the Middle School administration. The Middle School gives a certificate to those who have completed the four-year course of study.

# The College of Agriculture

This is open to both men and women and at present comprises four years and also one year which is of Middle School rank but is grouped with the College for administrative purposes. The five years are called Sub-freshman, Freshman, Sophomore, Junior and Senior respectively.

In general, the purpose of the College of Agriculture is to fit students for definite lines of intelligent leadership and service in to China. With this end in view, the College offers instruction chiefly in five groups of agricultural studies, each of which is planned prepare students to meet successfully problems now demanding study and solution in their country. A more complete and detailed statement of these courses is given in a subsequent section.

The College of Agriculture furnishes students a collegiate education of the thoroughness and general excellence of that to be obtained in the colleges and universities of foreign countries. The student has the advantage of keeping in close touch withhis own country and of correlating his education with the economic, social, scientific and general agricultural needs of China.

It is felt that Chinese students can be of largest service to their country if their collegiate education be fully provided in China; that only the occasional student seeking further research will need to go abroad for study, and then only for graduate work of a highly specialized character.

The Canton Christian College offers unusual facilities in its College of Agriculture. Each student is under the special care of a faculty advisor, with whom the student can confer freely, not only on academic matters but on personal affairs as well. Each student should feel that his advisor is genuinely interested in his welfare and it is to the advantage of the student to seek his advice and help.

The college thysicians attend all students who may require medical attention and give each student a thorough medical examination annually.

For other details as to the College of Arts and Sciences, see the appropriate sections that follow in this catalogue.

# The College of Arts and Sciences

This is also open to both men and women. As its purpose is to fit students for definite lines of intelligent leadership and service in China, the College offers instruction in seven groups of associated studies, viz, General Arts, Natural Science, Business Administration, Chemistry, Education, Pre-medical and Pre-theological.

The College of Arts and Sciences furnishes students a thorough collegiate training where they can keep in close touch with their own country and correlate their education with the economic, social and scientific needs of China, thus preparing themselves for the largest service for their country.

The number of classes and facilities parallel those recorded above for the College of Agriculture. For complete statement of courses and other details as to the College of Arts and Sciences see the catalogue of the Colleges, Canton Christian College Bulletin No. 32.

#### Summer Session

In addition to the regularly scheduled work of the academic year, a Summer Session of one month is held. This consists, firstly, of courses not offered during the regular session, for those desirous of extra credits, and secondly, of supplementary short courses of both College and Middle School grade for those who are deficient in entrance requirements or in class standing. Further information on the Summer Session is obtainable from the Dean. A special leaflet is issued in June of each year.

# College of Agriculture

#### Admission

PPLICATION FOR ADMISSION to the College of Agriculture is made to the Dean. This should be done some time in advance of the beginning of the academic year so that the applicant may be advised in case admission appears improbable or impossible. The intending student should procure a blank application for matriculation, fill it out completely, using the same name under which he has been enrolled elsewhere. The student must not change his name during his period of study, and should adopt the standard of romanized spelling used by the college.

An applicant must have a clean record from the school or schools last attended, evidenced by a leaving certificate indicating honorable dismissal or withdrawal. He should be able to furnish a detailed statement of work done in middle school, certified by the principal or proper officer of the school from which he comes. Blanks for this purpose may be secured on application to the Dean. New students who fail to present adequate credentials can be admitted only provisionally.

#### ADMISSION TO THE SUB-FRESHMAN CLASS

To enter the Sub-Freshman Class (Fourth Year Middle School) the applicant must present a certificate of sufficiently high standing from an accredited school, or else be able to pass examinations on the following work: English Grammar and Composition, with sufficient readiness of speech and understanding to enable him to do his work through the medium of the English language; Algebra as far as quadratic equations; Plane Geometry; Business Arithmetic; Geography of the World; Elementary Science, including simple Physiology and Hygiene; Chinese History; History in brief of one Western country; Chinese Literature, and creditable skill in Chinese Composition.

# Admission to the Freshman Class

To enter the Freshman Class the applicant must offer in addition to the above the following: Ancient and Mediæval History; Intermediate Algebra (including progressions and logarithms): Solid

Geometry or Plane Trigonometry; General Science\* with laboratory work and note-book records; and some knowledge of English Literature. Other subjects of equivalent value may be offered in place of those enumerated above. A fair knowledge of the Bible will receive due credit. Each case will be judged on its merits. The Dean will welcome correspondence on individual cases.

#### ADMISSION ON ADVANCED STANDING

To enter with advanced standing, in addition to satisfying the requirements for admission to the Freshman Glass, the applicant must present a transcript of work of collegiate grade done elsewhere for which credit is desired. No credit can be granted for work unless it is more advanced than any offered in the Sub-Freshman year. The transcript should show clearly the courses pursued, texts or description of courses, hours per week, length of hour, number of weeks, whether year course or half-year course, grade obtained, basis of grading and pass, credits allowed, etc., and must be certified to by the proper officer of the institution in which the work was done.

#### ACCREDITED SCHOOLS

Schools with standards similar to those of the Middle School of the Canton Christian College may become accredited schools and recommend their students for admission without examinations.

Once a school has become accredited, in order to have its graduates admitted without entrance examinations, it needs to observe only the following conditions: (1) Each year a statement of the work done by the next graduating class during its four years course should be submitted for approval to the Dean not later than January first, in order that the name of the school may be published in the College Catalogue, and (2) The individual graduated must be recommended by the principal as being capable of doing College work.

The accredited schools for 1922-23 are

Haigh College Pooi To Middle School Pui Ching Middle School Swatow Academy True Light Middle School Union Middle School

<sup>\*</sup>Or a good laboratory course in Physics.

# SENIOR AND JUNIOR LOCAL CERTIFICATES

Students who have passed the matriculation examination of the University of Hongkong or who hold certificates of the senior Oxford and Cambridge local examinations, will be admitted to the Freshman class without further examination on the subjects covered by the senior local certificate, except Chinese.

Students who have passed the junior locals of the University of Hongkong, or of Oxford and Cambridge, will be admitted to the Sub-Freshman class without further examination on the subjects covered by the junior local certificate, except Chinese.

## ENTRANCE CONDITIONS AND SPECIAL STUDENTS

Applicants deficient in one or two subjects may be admitted with conditions, but such conditions must not exceed two in number and must be removed within one year. Special tutoring may be secured.

A student deficient in more than two subjects, or who fails to remove entrance conditions within one year, may be entered as an unclassified or special student, and enroll in such courses as he may be able to undertake with profit, subject to the approval of the Dean and the instructors concerned.

# **Matriculation and Enrollment**

N FIRST ENTERING either College the applicant will be given an application form, which he may fill out assisted by the Dean or his probable Advisor. A matriculation fee of \$1 H.K. must be paid to the Bursar. The applicant will then be examined and classified by the Dean and will secure from the Dean or his Advisor an enrollment card. In consultation with his Advisor or Dean the student will indicate the particular courses for which he expects to enroll. When this card has been signed by the Advisor and Dean, the student will take the card to the Bursar for the payment of his fees. One portion of the card, on which will be indicated the courses for which the student has registered, and which will bear the signature of the Advisor and Dean, and the receipt-stamp of the Bursar, will be returned to the student by the Bursar. The student will consult the roster or schedule of classes found on the bulletin board, and determine his own schedule for each week.

The acceptance of an applicant by a College for the first time is called his matriculation.

When a student enters the College after having been matriculated or re-enters the College as an old student the act is called his enrollment.

On going to classes for the first time, the student should exhibit his receipted enrollment card to each teacher, who may enroll him as a member of the class. In case the student is not able to present a receipted enrollment card the first time, he must show a statement from the Bursar to the effect that the payment of fees has been arranged for. No credit can be given for work done unless a student is properly enrolled in a class, nor can any student be permitted to attend classes without having been properly enrolled, except by special permission of the Dean. Therefore it is to the interest of each individual student to make sure that he accomplishes his own registration each semester in each class.

No change can be made in the enrollment schedule of a student after he has once enrolled, except by permission of both Advisor and Dean. As this permission will be given only for good reasons that could not ordinarily have been foreseen at the time of enrollment, students should make very sure of their schedule of courses at first enrollment. Permission to change courses will not be given later than ten days from the date when the student enrolled, and no course may be dropped later than six weeks from the beginning of the semester. No change can be recognized until it has been entered on the student's enrollment card and endorsed by the Dean.

Students enrolling four weeks or more after the opening of a semester cannot receive full credit for work done during that semester, even though they are able to make up all work lost.

Unless specially excepted, a student must enroll in one of the prescribed groups of courses. A student may elect any subject open to his class and suitable to his line of study, provided, of course, he shall have had the prerequisite courses.

No student will be permitted to continue in the study of any subject, if the instructor in charge of that subject is satisfied that by reason of lack of preparation he is not competent to undertake it. Any instructor may at any time exclude from his course any student, who in his judgment has neglected the work of the course.

# Credits and Standing

A STUDENT IS RANKED according to the number of credits\* he has secured. A student having less than 30 credits shall be ranked as a Freshman, one having 30 but less than 65 credits as a Sophomore, one having 65 but less than 100 as a Junior, and one having 100 credits or more as a Senior.

At least sixteen credits must be attempted each semester, except in case of illness or when a student is doing other work of recognized character. The maximum number of credits which a student may take in any group in either College, other than the Chemistry and Pre-medical groups in which the courses are prescribed, is eighteen. However, students whose average in any semester is between 80 and 85 may elect up to twenty credits the following semester, and students whose average in any semester is 85 or above may elect up to twenty-three credits the following semester.

Half-time teachers may not enroll for more than twelve credits in one semester, except that credit for practice teaching may be obtained in addition.

Credit may be given for work, without regard to how small the amount may be which is done at one time, provided it be of approved quality. All credit is given by points or credit-hours. In general, one credit-hour represents one hour a week of class-room work or two hours a week of laboratory or field work for one semester. Fractional credits are not granted.

Not more than six credits may be obtained in one semester by special extra-class or reading courses, and this privilege is limited to Juniors and Seniors. Such credits may not be given in excess of the maximum of credits for the class and course.

Credit may be secured by non-resident students for satisfactory work done by visits or by correspondence but not over thirty credits thus obtained may count toward a degree.

As a rule the College expects to give any course offered if a sufficient number of properly qualified students apply, but it reserves the right to alter or to withdraw any course.

<sup>\*</sup>One credit is represented by one hour lecture or recitation or two hours laboratory work per week per semester.

#### CONDITIONS AND FAILURES

The passing grade is a semester mark of 70 or higher. A student receiving a grade less than 70 but not lower than 60 in any subject, or whose work is incomplete, shall be conditioned in that subject.

Such a condition received at the end of the first semester must be removed by re-examination within the first four weeks of the second semester. If received in the second semester it must be removed before the beginning of the next academic year.

A student failing to remove a condition within the prescribed time, or receiving a grade below 60, is recorded with a failure in that subject, and cannot receive credit for the subject in question unless he repeats the course in class.

# Fees, Deposits and Expenses

All are in Hongkong Currency and all except Laboratory Fees are to be paid before residence is taken up.

Tuition	1st Sem	2nd Sem.	Year				
Sub-freshman		\$60 50	\$160 125				
Biology, each semester of each Physics	fter register		se) 5 15				
Chemistry, according to course taken, varies from \$10 to \$30  Home Economics laboratory fee in each course							
Trips and Camping (approximate) 6							
Quarters	1st Sem.	2nd Sem.	Year				
Usual spaceSpecial guarters, when available	\$25 15	<b>\$25</b> 15	<b>\$50</b> 30				
Board	30	30	60				

1st Sem. 2nd Sem. Y	ear.
Laundry 5 5	10
Student Union 3 2	5
Registration Fee (Required of all applicants for admission to the College)	1
Guarantee Deposit	10
Special Examinations	
Entrance examination not at a scheduled time	4 2

#### Delinquency Fee

A student who is late, either in paying fees or enrolling or in taking up residence, is liable for a delinquency fee of \$2 a day, with a maximum total of \$10.

## B. A. Diploma Fee

A fee of \$7.50 U.S. currency is required to cover the cost of the B. A. diploma from the Regents of the University of the State of New York.

# Marriage and Fees

It is considered that a student who is married while his name is on the school rolls is more nearly able to pay the costs of his instruction, and hence shall pay double tuition. New students, if married, shall be liable to the same double charges unless excused by special action.

# Special Students

An additional tuition fee of \$20 or \$40 per semester is charged any student requiring special tutoring or care, subject to the decision of the Dean.

A special student studying less than full time may pay tuition according to the number of credit-hours for which he is enrolled at the rate of \$5 per credit-hour.

#### OTHER EXPENSES

Besides his college fees, the student will need to provide for a number of other expenses, the amount for which will vary with his personal habits. By practising economy it is possible for a student to maintain himself at the College for very little more than the cost of his college fees, board, room-rent, laundry, clothing, and necessary travel to and from his home. Books will cost about \$30, but more may be spent advantageously. The College provides a sufficient amount of good and nourishing food for all students, which is covered by the boarding fee, but some students buy "extras" which increase expenses. Clothing is an item that will vary greatly with individuals.

In addition to these items, allowance should be made for class dues, contributions, boat and ricksha fares, medicine, stationery and postage, and other miscellaneous incidentals. \$25 would be a low allowance for these incidentals for the school year, \$50 would be moderate, and \$100 would be liberal. Students should provide their own furniture except those who are assigned to Java Hall.

No student should be deterred from entering or continuing his study at the College because of inability to meet the expenses. Special provision is made for scholarship aid and opportunities for self-help are also available.

#### **SUMMARY OF EXPENSES**

Freshman to Senior	1st Sem.	2nd Sem.	Year
	Low High	Low High	Low High
Fees	\$128 \$138 5 50	\$102 \$112	\$230 \$250 5 50 50 200
		Total	.\$285 \$500
Sub-freshman	Low High	Low High	Low High
Fees	\$156 \$171	\$106 \$121	\$262 \$292
Laboratory Other Expenses	15 15		15 15 50 200
		Total	.\$327 \$507

Students who matriculate after the first semester has closed, pay fees at first semester rates, and in addition gown fee and deposit.

# Financial Aid for Students

EMPLOYMENT BUREAU. The College maintains a student employment bureau to assist students desiring to earn a portion of their expenses and to secure positions for graduates and other students. Others desiring a position in a school in this province would also do well to apply.

The average student who undertakes outside work is not able to carry a full schedule of studies and should allow a longer period in which to complete the college course. Advanced College students are often engaged as part time teachers in the Elementary School, which gives them the valuable experience of teaching under expert supervision and enables them to meet a part or all of their expenses.

An excellent opportunity is also offered in the College of Agriculture to students who have completed one or two years of the course and who are willing to spend the remainder in part time employment. This enables them to secure the much needed experience for success in this field.

STUDENT LOAN FUND. A small fund has been accumulated by gifts from students, teachers and friends from which loans are made to deserving students in need of help. From time to time a collection is taken at the Sunday Service and turned over to this fund. Students, teachers, churches, missions, missionaries and other friends are urged to contribute to it. The Bursar takes care of the fund.

Application for loans from this fund should be addressed to "The Manager of the Student Loan Fund." Late applicants may be disappointed. Not more than \$50 is loaned to one student in one year. The Manager will consult with the Student Aid Committee and the Dean and give an order to the Bursar. A student who is granted such a loan must sign a note promising to repay as soon as he is able. Loans bear interest at 6 per cent. per annum from the time the student leaves the school and interest is compounded if not paid annually. The Bursar holds the notes, and interest and principal should be repaid to him.

COLLEGE LOAN GRANTS. Every student wishing to enter the College, or to remain in the institution but lacking the money to do so, should consult the Dean of his College. The College has a limited sum with which to help such students. Blank forms will be supplied and the applications carefully considered by the Student

Aid Committee. The amount of aid granted will be determined largely by the student's scholastic standing, but due weight will be given to his diligence, character and non-scholastic activities.

The College will give special consideration to the applications for aid of sons or daughters of a Christian pastor or mission worker. Their standing is, however, taken into account in determining the amount of all loan grants. In any case the Student Aid Committee cannot make grants to exceed the total loan funds available for the year.

A part of the sum available for these grants comes from endowed Scholarship Funds designated as the Yew Fun Tan (讀有方), the Henry Martin, the C.T.B., the Knipp, the Cook, the Edmunds, and the Smith funds. Particular students are named each year as recipients of loans from these funds.

#### M. T. TANG SCHOLARSHIP IN BUSINESS ADMINISTRATION.

Through the generosity of Mr. M. T. Tang, (野文莊) of Hongkong, a former student, who has donated \$1,500 H. K. currency for this purpose, special scholarship gifts are made to deserving students in business administration in grants of \$50 each, not subject to the loan conditions which apply to College Loan grants. Awards may be made to more than one student in any given year, and the same student may be awarded more than one unit. Special application should be made to the Dean by any desiring aid from this fund. A competitive examination may be required before an award is made.

## CLASS OF 1923 SCHOLARSHIP.

The students who received their one-year junior certificates in 1920 and passed on into the Sophomore class presented to the College a scholarship fund of \$1,000 H. K. currency. The income will be used as scholarship gifts. As long as members of the class remain in the institution, they are to be given preference in the grants made possible by this scholarship.

#### AGRICULTURAL SCHOLARSHIPS

In addition to the general scholarships there are a number of scholarships open only to students in the College of Agriculture. Certain of these scholarships are not subject to the loan conditions which apply to ordinary College Loan Grants, but the recipients are expected to render any service to the College of Agriculture which will not interfere with their scholastic work. The College of Agriculture also provides a number of working scholar-

ships for students who will engage in part-time work, in connection with agricultural developments, for which they receive payment scaled somewhat in advance of the non-student labor wage.

CHUE PIK TUNG AGRICULTURAL SCHOLARSHIP.

Through the generosity of Mr. Chue Pik Tung (朱雙東) of Canton, a sum of \$3,000 has been provided for special scholarship aid to students of agriculture.

HONGKONG AGRICULTURAL SOCIETY SCHOLARSHIPS.

Two scholarships are also provided by the members of the Hongkong Agricultural Society (中華農學來新會) valued at \$200 annually.

OPPORTUNITY FOR ESTABLISHING SPECIAL STUDENT AID FUNDS.

Those who are interested in assisting individual students are invited to give to the College memorial funds, the interest on which is to be used for loan grants or scholarship gifts. Annual gifts to the College of \$50, \$100, \$150 or \$200 will also make it possible to continue a liberal policy in student aid. This is especially important in the College of Agriculture because many of its students will be drawn from the rural class.

## Rules Regulating College Loan Grants

Awards of loan grants are made for the full academic year, with the understanding that aid will not be continued in the second semester, unless the student has maintained his scholastic record and is regarded as worthy.

Every student receiving a loan grant is required to sign a note in recognition of the same, to be repaid as follows:

- Any student finishing the College course shall be considered to have repaid two-thirds of his indebtedness at the time of graduation from the College.
- 2. All indebtedness not discharged in the above manner shall be repaid at the annual rate of one-tenth of the amount due when the student left school. The first payment will be due one year from date of leaving school. No money payment is necessary while the student is studying for more than half time in another school.
  - 3. All overdue payments shall bear interest at 4 per cent. per annum.

#### Prizes

Honor Prize, awarded annually to the student who ranks highest in scholarship, deportment and attendance.

COLES SCIENCE PRIZE, awarded annually to the Freshman who attains the highest general average of scholarship in science, on the basis of all science work done in his Sub-freshman and Freshman years.

COLES MATHEMATICS PRIZE, awarded annually to the student who has done the most meritorious work in mathematics during the year in Freshman or Sub-freshman courses.

ATHLETIC PRIZE, awarded annually to the student who has done the most during the year to promote athletics.

CHAMBERS CHINESE ESSAY PRIZE, the gift of Rev. R. E. Chambers, D.D., Canton, and awarded annually to the student submitting the best essay in Chinese.

AGRICULTURAL SCHOLARSHIP PRIZES, the gift of Prof. C. O. Levine, are awarded annually to students in the College of Agriculture as follows, the sums being paid in Canton currency:

- 1, \$50 to the student ranking highest in AGRICULTURE.
- 2, \$30 to the student ranking second in AGRICULTURE.
- 3, \$30 to the student ranking highest in LIVE STOCK JUDGING.
- 4, \$20 to the student ranking second in Live Stock Judging.

## Certificates

#### HONOR CERTIFICATES

A student who maintains an exceptionally high standing may be declared an honor student and receive an Honor Certificate at the commencement exercises of the year. The number of such honor students in either College may not exceed five per centum of the total number of students enrolled in that College during the year. The awards are made chiefly on the basis of scholarship, but due weight is given to diligence, non-scholastic activities and personal character.

#### CERTIFICATES FOR WORK COMPLETED

Certificates are offered in Education to those students who have completed certain courses and are qualified to hold positions as teachers of general or special subjects in Middle Schools, or as Principals or Supervisors of Lower Middle Schools.

Students who wish to pursue professional study elsewhere will be given complete and detailed certificates for the work done at this College through the last semester they have completed, and every attempt will be made to secure for them proper standing at the school to which they go. Ordinarily they may transfer to corresponding class in American universities in similar courses without loss of standing.

Transcripts of academic records, after the first, will be charged for at the rate of \$2.00 H.K. currency each.

#### JUNIOR CERTIFICATES

A two-year Junior Certificate is awarded a student who has completed 65 or more collegiate credits in any one of the groups of courses and who has no entrance conditions.

## **Graduation and Diplomas**

DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE.

REDITS. In order to qualify as a candidate for graduation from the College of Agriculture and for the Degree of Bachelor of Science in Agriculture, a student must have completed 140 credits\* of collegiate work, including the prescribed amount of work in each subject and must also have removed all conditions. He must also present a thesis which has been approved by the Dean.

RESIDENCE. Candidates for the degree must be students in good standing and must have been in residence for at least two semesters immediately preceding candidacy. While it is recognized that students may in some cases be able to acquire the requisite 140 credits in less than eight semesters of college residence either here or elsewhere, the degree will not be granted for such shorter period of college residence and work excepting to candidates of unusual ability

<sup>\*</sup>One credit is represented by one hour recitation or two hours laboratory work per week for one semester.

and standing, and on specific recommendation of the faculty. The regular college course is four years.

RECOMMENDATION, APPROVAL AND FEE. Candidates for the degree must be recommended by the faculty and approved by the Representative of the Regents of the University of the State of New York. The diploma is given by the Regents of the University of the State of New York, upon recommendation from the Trustees of the Canton Christian College. A diploma fee of \$7.50 U. S. currency is charged.

TIME OF AWARD. The degree is conferred upon a successful candidate at the commencement next following the completion of his course of study and other requirements. The degree may be given in absentia only in cases of necessity and by special act.

#### Graduate Study

At present, the College offers but limited facilities for graduate study. The regulations covering this work may be learned on application to the Dean.

## Graduate Standing Abroad

Graduates of the Canton Christian College, upon presentation of a B. S. diploma and transcript of academic record, will be admitted, on recommendation of the Dean, into the graduate schools of western universities on substantially the same basis as graduates of other accredited colleges.

## **General Regulations**

Note: For additional regulations and details, see the Bulletin of Regulations and Information.

VERY STUDENT under this faculty must engage regularly in some athletic work or drill. Sub-freshmen may be required to serve as officers in the middle school battalion.

All students are required to attend daily chapel and Sunday morning exercises.

Students are expected to wear academic dress at the first religious service of the College on the second Sunday of each month, and at other times on request.

Permission for absence from classes must be obtained from both the instructor of the class and the attendance officer before the absence.

Excepting absences caused by illness or late enrollment, excused absences in any course in one semester are limited to one more than the credit-hours in that course. Loss of credit and standing will follow any exceeding of this limit.

Seniors are allowed to leave the campus without permits if such absence does not involve absence from classes or other required College activities. If absence from class is involved, permission must be obtained from the advisor. Other students are required to secure permits for all absences from the campus or from classes; Juniors and Sophomores from their advisors, Freshmen, Sub-freshmen and unclassified students from the attendance officer.

Students leaving College or absenting themselves from classes without due permission may forfeit all rights and privileges as students and can not ordinarily be received again except by special action of the Faculty.

Grades are made up at the end of each semester by a combination of examination grades, daily grades, and grades for other work. Instructors may be asked also in the middle of the term for an estimate of the student's standing. A grade of 70 or higher is a pass, one of 60 to 69 is a condition, and one below 60 is a failure.

Unless a student reserves a place in a dormitory the College does not guarantee to keep it for him, but may assign it to another student. A place is considered reserved if the student's guarantee fee is on deposit at the Bursar's Office. (New students should deposit their guarantee fees in advance). Old students must make application for the removal of their guarantee fees at least ten days before the opening of school if they are not returning or the fee will be forfeited. In any case reservations are held for not longer than the third day after the opening of the session.

The Faculty endeavors to arrange frequent *lectures* by specialists upon subjects of general interest to the Faculty and students. Lectures and entertainments on Saturday evenings are provided. These are usually also open to Middle School students.

Every student is on his *honor* to do his own work on examinations and other work for which credit is sought. Obtaining or giving of aid in such work is considered dishonest. Students are permitted to study in the dormitory and their rooms are to be open for inspection at any time, and should be kept neat, orderly and quiet. No dining is allowed in the dormitory rooms, except in dining rooms, nor may any food be stored in the dormitory.

Occupants of rooms in Java Hall may secure keys for their rooms on application to the Dean. A deposit of \$1 H. K. currency is required for each key issued, which deposit is refunded when the key is returned.

The management of the *Boarding Department* is in the hands of a committee of the Student Union elected each semester, subject to the final authority of the Council committee consisting of the Bursar and the Deans.

#### **ORGANIZATIONS**

The formation of any student organization on the College grounds must be approved by the executive of the school concerned. Such approval must also be obtained for its constitution, regulations, fees, and activities; likewise for any subsequent changes in the same. Every organization must provide for a faculty advisor and have all publications approved by the Dean. Every organization must report promptly to the Dean the officers selected from time to time. A list of the college organizations is given elsewhere in this catalogue.

No secret societies may be formed, except under special regulations.

#### FINANCES

The annual or semester budget of each general student organization (that is, one composed of a majority of the students in any school), and of each student organization with an annual budget of over \$200 H.K. currency must be approved beforehand by the executive of the school concerned.

All accounts of such organizations, and of teachers' organizations, must be audited, as soon as closed for the year or semester, by the College Auditor and a copy filed with the Bursar. Any unbusiness-like use of funds must be reported by the Auditor to the President and any serious departure from the budget to the executive who approved it.

Smaller student organizations or classes must keep their expenditures within their regular fees. For breaches of these rules,

the president and treasurer of the organization will be held personally responsible.

The raising of money or soliciting of subscriptions by any individual or organization on the College grounds without the consent of the President is strictly prohibited.

#### MEETINGS

Meetings of the student body or general student organizations may be held after obtaining permission of the executive of the school concerned, and after posting a notice of the meeting in both English and Chinese on the bulletin board of the school concerned, or having it announced at the proper chapel service. Permission for regularly scheduled meetings may be obtained in advance for a whole year, until changes are made.

Whenever the Auditorium in Swasey Hall is to be used for any purpose it is necessary to reserve the use of it by application to the President.

The word "meeting" in all cases includes parades and celebrations.

## Regulations for College Women

- College women, except daughters of the staff, should all live in dormitories. Special permission to live elsewhere may be given to near relatives of the staff, but for this the consent of the President is necessary.
- 2. Young women may go to Canton only with a chaperon, except under special permission based upon the written request of parent or guardian.
- 3. Young women must be back on the campus before 6:30 p.m. between November and February inclusive; all other months before 7:30 p.m.
- Young women may not under any circumstances enter the men's dormitories or the space within the dormitory quadrangle.

- 5. Young women may not take walks after dark.
- 6. Young women may receive callers in the reception room of their dormitory until 7:30 p.m. any evening, and on Sundays and Mondays until 9:30 p.m.
- 7. All permits for absence from classes or other required College activities are issued by the attendance officer for Freshmen and Sub-freshmen, by the advisors for all other students, and are not valid until endorsed by the Dean of Women.
- Permits for absences not involving classes are given by the Dean of Women.
- For all other academic matters, women students will consult the class advisor.
- College women are responsible directly to the Dean of Women for their personal conduct and relationship to the College.

## **General Facilities**

THE CANTON CHRISTIAN COLLEGE has an ideal location and excellent facilities for the work which is offered in the College of Agriculture. It is situated just within the tropics, in the heart of the great Canton Delta, famous throughout the world for its intensive agriculture. In this region are grown a wide range of subtropical and temperate plants. The College is also in close proximity to the wonderful markets of Canton, where are found in season a wide variety of products of this and other provinces.

The College has a campus of about three hundred acres, over one hundred and fifty of which are devoted to modern farming, landscape gardening, market gardening, fruit culture, grain growing, dairying, stock-raising, etc.. The remainder of the campus is devoted to buildings and layout of grounds, on which will be found a large selection of native and foreign trees and shrubs. In the immediate vicinity of the College are the farms of scores of villages, which devote themselves almost entirely to agricultural pursuits. The Kwangtung Agricultural Experiment Station, with more than sixty acres of land, is directly across the river from the College and is easily accessible. The agricultural staffs of the two institutions are in close touch with each other and co-operate in various undertakings.

The College of Agriculture is an integral part of the proposed Kwangtung University. In the year 1921-1922 a liberal appropriation for current expense and permanent investment was made by the Provincial Kwangtung Government. This has made possible a more rapid development of the agricultural work of the college.

The College of Agriculture is also in co-operation with the United States Department of Agriculture and with the government of the Philippines in scientific work. Important agricultural investigations are being carried on. The agricultural staff of the College is also directly associated with several state agricultural institutions in the United States. These connections offer to faculty and students every facility for keeping in touch with the most advanced methods of agriculture and for transmitting from one country to the other desirable agricultural practices.

The College Library contains more than four hundred well-selected books on agriculture and related subjects; files of the bulletins and reports of the United States Department of Agriculture and of various Agricultural Experiment Stations and colleges of the United States and other countries; and files and current numbers of the following journals on agriculture:—

Agricultural Index, Agricultural Journal of India, Agricultural Gazette of New South Wales, Agricultural News (West Indies), Botanical Abstracts, Bulletin Agricole de l'Institut Scientifique de Saigon, Experiment Station Record, Journal of Forestry, Journal of Agricultural Research, Journal of Agricultural Science, Journal of Dairy Science, Journal of American Veterinary Medical Association, Mededeelingen van de Landbouhoogeschool en van de Daaraan Verbonden Instituten (Dutch), Philippine Agricultural Review, Philippine Agriculturalist, Soil Science, and World Agriculture.

The Library also has on file the following scientific journals related to agriculture:

Annals of Applied Biology, Botanical Gazette, Bulletin of Entomological Research, Journal of Bacteriology, Journal of Biological Chemistry, Journal of Ecology, Journal of Experimental Zoology, Journal of Heredity, Journal of Home Economics, Journal of Genetics, Philippine Journal of Science, Physiological Reviews, and Review of Applied Entomology.

In addition to the above technical and scientific publications, the Library includes a number of farm periodicals and live stock breeding association herd books and journals.

In some cases the files of these publications are complete, while in other cases they are complete since 1910.

## Required and Elective Courses

Required courses are found chiefly in the lower classes of the College, but even here a wide range of electives is offered.

In the following tables the studies are indicated which are open to a student for each semester in the College. The student should first enroll in the prescribed courses, if possible. No student can become a candidate for a degree unless he shall have completed his required courses or their equivalent.

Courses open to Sub-freshmen are designated by capital letters, e.g., English A, and those open to College students are designated by numbers, e.g., Religion 1. Courses numbered from 1 to 10 are open to Freshmen and above, those numbered 11 to 30 are open to Sophomores and above and those numbered 31 and above are open only to Juniors and Seniors. All one year courses are prefixed by the letter "y" and all summer courses by the letter ["s". Upper classmen may elect courses open to lower classes in the College.

Students in the College of Agriculture may elect, with the approval of their advisor, courses in the College of Arts and Sciences for which they have had the prerequisites, subject to limitations of the roster, and vice versa.

Courses designated by the small letters a-b following the course number, e.g., English 1a-b, are year courses, 1a being given the first semester and 1b the second semester and the entire course must be completed before credit can be counted toward a certificate or degree.

The entrance requirements for the one year course in agriculture shall be a middle school certificate or its equivalent, which presupposes the ability to read and write both English and Chinese. The six months course in sericulture presupposes ability to read and write Chinese.

## General Statement of Courses

THE COLLEGE OF AGRICULTURE offers three types of courses:

- Course leading to the degree of Bachelor of Science in Agriculture.
- 2. One Year Course in General Agriculture.
- 3. Six Months Course in Sericulture.

The detailed outline of the courses in the College of Agriculture are for the present all listed in one group, but have been chiefly classified under the following five heads: Agricultural Manufacturing, Agronomy, Animal Husbandry, Horticulture and Sericulture. These include only those subjects offered in the four year and one year courses.

## The One Year Course in Agriculture

For those who because of financial or other reasons cannot take the full four year course in agriculture, a special one year course is provided. The attempt is to give the student as thorough practical and technical training as is possible in one year.

The course should train students especially for positions as farm managers, for agricultural investigations or extension work, and for positions as teachers of agriculture in lower schools.

A certificate showing that the one year course in agriculture has been completed will be granted students who successfully finish this course.

In case a student who has completed the one-year course in agriculture wishes later to take the full four years of collegiate work towards a Bachelor's degree in Agriculture, the following substitutions may be made for full college credit, providing the entrance requirements to the four-year course have been fulfilled.

Animal Husbandry v6 for Animal Husbandry 1.

Animal Husbandry v8 for Animal Husbandry 14.

Horticulture v6 for Horticulture 11a.

Agronomy v6 for Agronomy 45.

Horticulture y8 for Horticulture 15.

Two-thirds college credit will be allowed in the following substitutions:

Animal Husbandry v7 for Animal Husbandry 31.

Horticulture y7a-b for Horticulture 31a-b.

#### The Six Months Course in Sericulture

This course is primarily designed to train men to become high class silk worm egg producers. Most of the work is of a practical nature and trains the student to rear silk worms according to modern scientific methods, and to produce disease-free silk worm eggs. Sufficient instruction in botany, zoology and general agriculture is given to enable the student to grasp the reasons for the application of scientific methods. Considerable attention is also given to mulberry culture. A summary outline of the subjects offered in this course is tabulated on page 47. For further details address Sericulture, College of Agriculture, Canton Christian College, Canton, China.

Additional information about the buildings used, the equipment, and the aim and scope of the courses in Sericulture is given on a later page, under the heading "Sericulture."

#### Sub-Freshman Course

#### PREREQUISITE TO COURSE FOR A DEGREE

		SHOE TOK A DEGREE	
FIRST SEMESTER		SECOND SEMESTER	
Subject	Hrs.	Subject	Hrs.
English A Physics A Mathematics A Religion A Chinese A Elective not less than to be selected from †English C Sociology A 3 Chinese C 2 History A 3	5 *6 4 1 3 3	English B. Physics B. Mathematics B. Religion B. Chinese B. Elective not less than to be selected from †English D Sociology B. Chinese D. History B. 3	4
Total not less than	22	Total not less tha	n 22

\*4 hours class-room, 4 hours laboratory or field work, 6 credit-hours.
†English C and D may be required of any student upon recommendation of the instructor in English H and B and is open to no others.

For content of above Sub-Freshman courses see the general catalogue.

## Prescribed Subjects for Degree

In order to be eligible for the degree of Bachelor of Science in Agriculture, the student must present at least the following credits in prescribed subjects:

Biology	20	credits
Chemistry	26	,,
Composition in Chinese	8	**
Economics	2	
English	6	7.7
Religion	8	"
Agricultural Subjects Agronomy28		
Animal Husbandry 6		
Horticulture 8		
Farm Experience 4		
Agri'l Electives12	58	,,
Total Prescribed	128	,,

## SUMMARY OF COURSES

## Four Year Group

(Minimum 16, †Maximum 23 credit-hours)

Year	Semester	mester I Semester II			
Subjects	CREDITS	SUBJECTS	CREDITS		
FRESHWAN	*Composition in Chinese 1a English 2a Chemistry 1a Biology 2 Animal Husbandry 1	2 3 6 4 3 18	*Composition in Chinese 1b English 2b Chemistry 1b Biology 3 Agronomy 1	2 3 6 4 3 18	
SOPHOWORE	Chemistry 12 Horticulture 11a Agronomy 11 Biology 12  Agricultural Electives: Animal Husbandry 11 Animal Husbandry 12 Horticulture 12	6 3 3 3 15 3 15	Chemistry 14 Horticulture 11b Animal Husbandry 13 Horticulture 15 Biology 14  Agricultural Electives: Horticulture 18 Animal Husbandry 14	4 3 3 2 5 15	
JUNIOR	*Religion Chemistry 45 Biology 31a Agronomy 31a  Agricultural Electives:	2 4 3 8 12	*Religion Biology 31b Agronomy 31b Agricultural Economics Agronomy 41 3 or Animal Husb'y 35  Agricultural Electives:	2 3 3 2 2 12 or 13	
	Horticulture 31a Animal Husbandry 31 Agronomy 46	3 3 3	Horticulture 31b Chemistry 47 Animal Husbandry 32	3 4 3	
SENIOR	*Composition in Chinese 11a *Religion Agronomy 33 Agronomy 37a Agronomy 49	2 2 3 2 3 12	*Composition in Chinese 11b *Religion Agronomy 34 Agronomy 37b Agronomy 50	2 2 3 2 3 12	
20	Agricultural Electives: Agricultural Manu- facturing 31 Biology 33 Animal Husbandry 47	3 2 3	Agricultural Electives: Horticulture 32 Horticulture 36 Sericulture 31	3 3 3	

NOTES: \*Eight credits in Religion and eight in Chinese are required for a degree. These subjects may be taken at other times than indicated in the above outline.

<sup>†</sup>The Maximum depends on standing. See rule on page 27.

## SUMMARY OF COURSES

## One Year Course

(Minimum 16, Maximum 23 credit-hours)

Semester I		Semester II			
Animal Husbandry Y6 Horticulture Y6 Horticulture Y7a	CREDITS  3 3 3 3	Agronomy Y7 Horticulture Y8 Horticulture Y7b	CREDITS  5 3 3		
Animal Husbandry ¥7 Agronomy ¥6 Religion ¥6 Chinese ¥6a	3 1 1 1 7	Animal Husbandry Y8 Agronomy Y8 Chinese Y6b	3 3 1 18		

## Six Months Sericulture Course

Subjects	HOURS PER WEEK	NO. OF MONTHS	Subjects	HOURS PER WEEK	NO. OF MONTHS
Zoology Botany General Agriculture Anatomy and Physiology of Silk Worms Heredity and Breeding Microbiology Methods of rearing silk worms	5 5 5 5 5 5 5 5 5	1 1 1 1 1 1 1	History of sericulture Preparation of raw silk Manufacture of silk Mulberry culture Practical work in silk worm rearing Practical work in mul- berry culture	3 2 1 5 10 10	1 1 1 1 6 6

## COURSES OF STUDY IN DETAIL

#### AGRICULTURE

s1. SUMMER COURSE IN AGRICULTURE. This course is especially planned for rural pastors and teachers. Special lectures on various agricultural subjects will be given. In the laboratory period observation trips about the college farm and other farms are made, and for a part of the time the students are given work in the gardens and fields in order to be able to better understand the farmers' problems.

Ten lectures and four two-hour laboratory periods during summer session.

11. FARM EXPERIENCE. A first hand knowledge of farm conditions and farm work is essential to the development of the fullest efficiency of those intending to do work along agricultural lines. For this reason a minimum of two months of actual farm experience is required of all agricultural students qualifying for a degree. This work should be carried out during vacation periods and must be completed before the student registers for his senior year. For those qualifying for a junior certificate in agriculture, one month of such work, completed before the student registers for his second year, is required.

4 credits toward the degree; 2 credits toward junior certificate.

31. Special Problems in Agriculture. In this course the student is given work on special problems in which he is most interested. The work is assigned. The course is only open to advanced students. Work may be done either semester or during the summer. The amount of credit depends upon the work accomplished.

#### AGRICULTURAL MANUFACTURING

Professor P. K. Fu

31. CANNING AND PRESERVING. A practical course in canning and preserving garden and orchard products. Elective.

Class-room 1 hour, laboratory 4 hours 3 credits); one semester.

#### **AGRONOMY**

Mr. Edward Shim. Mr. F. Kan; Professor C. O. Levine

1. GARDEN, ORCHARD, FIELD CROPS AND SOILS. An introduction to the growing of different garden, orchard and field crops and general study of soils.

Class-room 2 hours, laboratory 3 hours (3 credits); one semester.

y6. FIELD MACHINERY. Proper adjustment, repair, care and operation of field machinery.

Lectures 2 hours, Laboratory 2 hours (3 credits); one semester.

Y7. GENERAL FARM CROPS AND SOIL MANAGEMENT. Grain, fiber, forage, root and tuber crops and soil management for these crops.

Lectures 2 hours, Laboratory 2 hours (3 credits); one semester.

- y8. General Farm Management and Marketing. Lectures 2 hours, Laboratory 2 hours (3 credits); one semester.
- 11. FARM EQUIPMENT. The mechanical principles of different types of farm machinery, and their proper adjustment. Required of all agricultural students.

Class-room 2 hours, field and laboratory 2 hours (3 credits); one semester.

31a-b. FARM CROPS: CEREALS, GRASSES, FIBER AND ROOT CROPS. A study of cereals, grasses and fiber crops adapted to this region. These crops will be considered from the point of view of grain, forage and fiber production. Required of all agricultural students.

Class-room 2 hours, field work 2 hours ( 3 credits); two semesters.

33. Soil Physics. Microscopic study of soil particles, taking soil samples; determination of capillary moisture; influence of color on soil temperature; variation of soil temperature at different depths; the absorption of heat by soils; the effect of lime upon soil; determination of the weight of soil per acre; effect of humus on the water-holding capacity of soils; rate of rise of capillary water from soils; the effect of organic matter on the baking of soil. Mechanical

analysis of soils. Agronomy 33 and 34 are required of all students.

Lyon, Fippin and Buckman: Soil Physics.

Class-room 1 hour, laboratory 4 hours (3 credits); one semester.

34. Soil Fertility. The study of food combinations of plants; the effect of different crops and different systems of farming upon the depletion of soil fertility; the proper methods of handling, preserving, and applying barnyard manure and night soil; the determination of the needs of soil for commercial fertilizers and the kind of fertilizers to apply. Prerequisites: Chemistry 12 and Agronomy 33.

Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

37a-b. IRRIGATION AND DRAINAGE. Irrigation water supply; construction of canals, reservoirs and ponds; pipe lines. Methods of applying water to various crops. Drainage, rainfall and evaporation; advantage and methods of draining retentive soils. Farm mechanics. Pumps, devices and appliances used in irrigating; making tile drains, etc.. Required of all agricultural students.

ELLIOTT: Practical Farm Drainage.

Class-room 1 hour, field work 2 hours (2 credits); two semesters.

41. PLANT BREEDING. The dependence of man upon domesticated and cultivated plants; the origin of domesticated plants from the wild; effect of natural selection; unit characters; variability of single characters; transmission of characters; heredity and environment; systematic improvement of plants. The work on the papaya and rice being carried out on the campus offers ideal facilities in plant breeding. Required of students who do not take Animal Breeding.

Class-room 2 hours, laboratory or field 2 hours (3 credits); one semester.

46. STATIONARY EQUIPMENT. Special attention to stationary machinery, such as grinding and pumping machinery, and engines. The construction of farm machinery, and the grinding and repairing of tools is taken up in the laboratory. Prerequisite: Farm Equipment 1. Elective.

Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

49. General Farm Management. The purpose of this course is to assemble and correlate the principles involved in the agricultural courses taught in the institution, paying special attention to

types of farming, labor questions and farm accounting. Required of all agricultural students.

WARREN: Farm Management.

Class-room 2 hours, practical work 2 hours (3 credits); one semester.

50. Marketing. Factors essential to successful marketing of all kinds of farm produce; cooperative marketing, cold storage, proper packing for transportation, etc.. Required of all agricultural students.

Class-room 3 hours, (3 credits); one semester.

## Animal Husbandry

Professor C. O. Levine; Mr. P. S. Chung; Mr. W. L. Funkhouser.

the student special instruction in the selection, breeding, feeding, marketing and management of all kinds of live stock. Attention is given to sanitation and the treatment of the more common forms of diseases to which animals are subject. The student is taught to study the animal from the standpoint of the breeder and the feeder. The college live stock includes poultry, hogs, buffalo both for milk and draft purposes, horses, dairy cows and milk goats. A model dairy of forty-five buffalo, pure breed cows and goats supplies milk to the community. The management of this dairy offers practical demonstration to students interested in dairying.

Animal Husbandry 11, 13, 14, 31 and 35 are required of all students specializing in Animal Husbandry; 13 is required of all agricultural students; and y6, y7 and y8 are offered for students taking the one-year course in agriculture.

1. FARM ANIMALS. An introduction to the courses in poultry and live stock. The aim is to give the student acquaintance with the more common breeds and varieties of animals, and provide practice in judging, feeding and management.

HARPER: Animal Husbandry for Schools.

Lectures 2 hours, laboratory 2 hours (3 credits) one semester.

y6. A GENERAL STUDY OF FARM LIVESTOCK. Study of breeds, judging, feeding and management.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

- y7. Dairying. Dairy feeding and management. Lectures 2 hours, laboratory 2 hours (3 credits); one semester.
- v8. POULTRY PRODUCTION. General problems in poultry raising; including incubation, housing, feeding, general management and study of breeds.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

STOCK JUDGING Judging of horses, beef cattle, water buffalo, hogs and general study of breeds of live stock.

GAY: Principles and Practice in Live Stock Judging
Lectures 2 hours, laboratory 2 hours (3 credits); one semeste r.

MEATS. Killing, dressing and curing of beef, pork, mutton and poultry. Prerequisite: Animal Husbandry 1. Lectures, supplemented with bulletins.

Lecture 1 hour, laboratory 2 hours (2 credits); one semester.

13. Principles of Feeding. The digestive system and the process of nutrition; theory of practical economy of rations for maintenance and fattening of all classes of animals. Practical training is given the student in feeding live stock owned by the College. Lectures and supplementary reading.

HENRY AND MORRISON: Feeds and Feeding (abridged edition).

Lectures 2 hours, laboratory 2 hours, (3 credits); one semester.

14. Poultry Production. General problems of poultry raising including incubation, housing, etc.. The field work consists of the actual care of flock by the students, under the supervision of an instructor. Lectures and supplementary reading.

LIPPINCOTT: Poultry Production.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

31. DAIRYING. Dairy live stock judging and dairying; sanitation and live stock buildings.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

DAIRY MANUFACTURING. This course includes the manufacturing of cream, butter, cheese, condensed milk, ice-cream and other dairy products; marketing; and laboratory study of the bacteria related to dairy manufacturing. Prerequisites: Animal Husbandry 31 and Biology 12.

Lectures 2 hours, laboratory 3 hours (3 credits); one semester.

- 35. Animal Breeding. Origin of domesticated animals; natural selection; unit characters, variability; transmission of characters; heredity; environment; systematic improvement of animals; breed associations; breeding records; and the value of pedigreed stock. Required of students specializing in Animal Husbandry. Prerequisites: Biology 2 and 3, Animal Husbandry 1 and 31.
- 47. DISEASES OF FARM ANIMALS. Common diseases of farm animals. The subject includes wounds and their treatment, examination of animals for diseases, diagnosis and treatment of diseases; practice of castration, spaying, and caponizing; instruction in obstetrics, care of mother at parturition and diseases affecting mother and offspring. Microscope studies in the laboratory are made of the organisms and parasites associated with diseases. Sanitation, and other measures necessary for the prevention of diseases. Prerequisite: Animal Husbandry 1. Supplementary reading is required.

CRAIG: Common Diseases of Farm Animals.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester

#### BIOLOGY

Professor C. W. Howard; Mr. K. P. Buswell; Mr. A. S. Campbell

THE BIOLOGICAL DEPARTMENT is well equipped with microscopes and other instruments necessary for work in all lines of botany and zoology. A good herbarium and working collections of the local fauna are also accessible to the students. This department serves both the College of Arts and Sciences and the College of Agriculture. Students in Agriculture may elect courses in Biology besides those which are required, with the approval of their advisor.

- 2. Botany. Structure of plants and general function of plant organs. Prescribed for students in the College of Agriculture.

  Ganons: Tept-book of Botany
  Lectures two hours, laboratory 4 hours (4 credits); one semester.
- 3. ZOOLOGY. Introductory study of the various forms of animal life. Prescribed for students in the College of Agriculture.

  GALLOWAY: Zoology.

Lectures hours, laboratory 4 hours (4 credits); one semester.

12. AGRICULTURAL BACTERIOLOGY. The nature of bacteria; fermentation; relation of bacteria to the origin of soil. The transformation of carbon and nitrogen; the manure heap and sewage; reclaiming lost nitrogen; relation of bacteria to the dairy and its products; relation of bacteria to miscellaneous farm products; parasitic bacteria.

CONN: Agricultural Bacteriology.

Lecture 1 hour, laboratory 4 hours (3 credits); one semester.

14. PLANT PHYSIOLOGY. Lectures and readings on the growth, nutrition, irritability, reproduction and variation of plants, combined with laboratory work. Prerequisite: Biology 2.

COULTER, BABNES AND COWLES: Textbook of Botany, Vol. I.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

31a-b. Economic Zoology. A study of the forms of animal life harmful to or beneficial to man, his crops and domestic animals. Prerequisite: Biology 2 and 3.

Lectures 2 hours, laboratory 2 hours (3 credits); two semesters.

33. PLANT PATHOLOGY. A consideration of the bacteria and fungi which attack cultivated crops as well as other causes of plant diseases. Prerequisites: Biology 2, 3 and 12.

Lecture 1 hour, laboratory 4 hours (3 credits); one semester.

#### CHEMISTRY

PROFESSOR C. N. LAIRD; ASSISTANT PROFESSOR CHIU YAN TSZ;

HREE ROOMS, approximately 1500 square feet in area, are occupied by the department of Chemistry. One room, seating sixty, equipped as a lecture room, is also used for recitation, another room accommodates fifty-six students in general chemistry, working in three sections, and the third has desks for twenty students in analytical and organic chemistry. Each desk is equipped with running water and (gasoline) gas. The equipment includes both apparatus for demonstration purposes and all the materials and supplies needed for each student to perform the experiments in the courses in general inorganic, analytical, organic and agricultural chemistry.

THE DEPARTMENT of Chemistry serves the College of Agriculture as well as the College of Arts and Sciences. Students in Agriculture may elect courses in addition to those below which are prescribed, with the approval of their advisor, provided they have the prerequisites.

1a-b. General Inorganic Chemistry. The work covers only the ordinary non-metallic (first semester) and metallic (second semester) elements and their compounds, but a thorough knowledge of them is required. The quantitative laws of chemical combination and the principles of chemical equilibrium are mastered, and the habit formed of continually applying these principles to all chemical, including ionic, reactions. Prerequisite: Physics A and B. Laboratory fee: \$20.00.

ALEX. SMITH: General Chemistry for Colleges.

ALEX. SMITH: A Laboratory Outline of College Chemistry.

Lectures 3 hours, laboratory 6 hours (6 credits); two semesters.

12. ANALYTICAL CHEMISTRY. Short course for Agricultural and Pre-medical students. Lectures on theory of analytical chemistry and training in laboratory methods. Mostly qualitative analysis, but five weeks are spent on preparation and use of standard solutions and simple gravimetric determinations. Prerequisite: Chemistry 1. Laboratory fee: \$15.00.

A. A. Noyes: Qualitative Chemical Analysis.

Lectures 2 hours, laboratory 9 hours (6 credits); one semester.

14. ELEMENTARY ORGANIC CHEMISTRY. Short course for Agricultural and Pre-medical students. Survey of the characteristics and relationships of the more important members of the alipathic series followed by a briefer treatment of the aromatic series. Relation of organic chemistry to medicine, pharmacy and agriculture is emphasized. Agricultural students will be in the laboratory only 3 hours, and receive 4 credits. Prerequisite: Chemistry 12. Laboratory fee: \$10.00.

MOORE: Outlines of Organic Chemistry.

FISHER: Laboratory Manual of O ganic Chemistry.
Class-room 3 hours, laboratory 3 hours (4 credits); one semester.

45. AGRICULTURAL CHEMISTRY. Treated chiefly from the organic and bio-chemical side. Factors which influence the composition and feeding value of crops: crop rotation; chemistry of

plants and animals; chemical analysis of soils, fertilizers and farm products. Prescribed for all Juniors. Prerequisite: Chemistry 14. Laboratory fee: \$10.00.

STODDART: Chemistry of Agriculture.

Lectures 2 hours, laboratory 4 hours (4 credits); one semester.

47. FOOD ANALYSIS. Analysis of typical Chinese food-stuffs. Prerequisite: Chemistry 33, but open to Agricultural students who have Chemistry 14. Not offered in 1922-23.

WOODMAN: Food Analysis.

Class-room 1 hour, laboratory 6 hours, (4 credits); one semester.

#### COMPOSITION IN CHINESE

Mr. CHAN SHAU YI; Mr. CHEN SHAO SHUN

1a-b. Prescribed for all students in the College. This is not a course in Chinese classics and literature. The aim of the course is to guide and encourage the student to make use of the knowledge which he has acquired through the medium of the English language by expressing it in Chinese. This is so essential in the preparation of the increasing number of men who are looking forward to teaching in grammar and middle schools, that its importance must be emphasized. Students are classified according to the general lines of study which they pursue and are required to translate English works into modern and idiomatic Chinese. Opportunity is afforded for collateral reading of books already translated by acknowledged authorities and for informal class discussions.

In addition to the regular class room work, Agricultural students are encouraged to collect material in English and prepare in Chinese talks and addresses on topics related to their work to be delivered in the class room and elsewhere as occasions offer in connection with the extension work of the College of Agriculture. Students find expression for their best translated and original productions through the agricultural publications of the College and the Naam Taai Magazine.

2 hours; two semesters.

y6a-b. This course is designed to acquaint the students with Chinese agricultural literature and technical terms. Compositions in Chinese on agricultural subjects are required.

1 hour : two semesters.

11a-b. This course, also prescribed for agricultural students, is a continuation of course 1.

2 hours; two semesters.

#### ECONOMICS

31. AGRICULTURAL ECONOMICS. A brief introduction to elementary economic theory, followed by a study of some problems of agriculture in their economic aspects, emphasizing conditions in China. Some topics considered are: the statistics of the world's agricultural geography, resources, products and trade; crop yields and prices; agricultural enterprise and farm organizations; standardization of agricultural products; co-operative associations; markets and marketing methods; farm incomes and farm cost accounting; land tenure; rural credit; colonization projects; agricultural legislation and agrarian policies.

TAYLOR: Agricultural Economics, and syllabi.

Readings in Nourse: Agricultural Economics, and other source materials.

2 hours; one semester.

#### ENGLISH

Associate Professor J. C. Griggs; Mr. Chan Shau Yi

2 a-b. ENGLISH COMPOSITION FOR COLLEGE OF AGRICULTURE STUDENTS. Prescribed for Freshmen. A course in composition and reading, corresponding with some modification to 1a-b, with themes on subjects taken from the practical work and the texts of the courses in agriculture.

3 hours; two semesters.

#### HORTICULTURE

Professor G. W. Groff; Mr. Cheung Cheuk Kwan; Mr. F. A. McClure

the Courses in horticulture are so arranged as to give the student instruction in growing and marketing vegetables, flowers and fruits. A wealth of illustrative material for the classes in horticulture is found in the large collection of foreign and native species growing upon the College campus, in the lychee and citrus orchards to the south of the College, in the extensive vegetable gardens close

at hand, and in the commercial flower gardens at Fati. Each student is required to maintain a garden of his own where he can put into practice the ideas received. Agronomy 1 serves as an introduction to the courses in horticulture.

All Agricultural students are required to take Horticulture 11 and 15. All students specializing in Horticulture are required to take Horticulture 12, 31 and 32. Students other than those specializing in Horticulture may take Horticultural courses as electives.

y6. VEGETABLE CULTURE. Fundamentals of vegetable culture; propagation; cultural methods; insect and disease control; marketing.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

Y7a-b. FRUIT CULTURE. Fundamentals of fruit growing; culture; propagation; fertilization; pruning; orchard planting; insect and disease control; marketing. Special emphasis on tropical and sub-tropical fruits.

Lectures 2 hours, laboratory 2 hours (3 credits); two semesters.

y8. General Forestry Management. Forestry methods; study of trees for forestry planting and management.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

11a-b. VEGETABLE CULTURE. The problems and possibilities of the market garden, the necessary soil requirements and sanitary methods of applying fertiliers; methods of starting early fall vegetables, by protecting the seedling from the intense heat of late summer, form a prominent place in the course. Systems of cropping; methods of tilling; irrigating; grading, packing and marketing. Bulletins and reference work.

Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

12. FLORICULTURE. A practical course in flower gardening. The aim of the course is to train students in the selection and care of flowers and plants for the home and garden. Methods of propagating, potting and planting are taught in the laboratory. Students other than those studying agriculture may elect this course.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

15. Dendrology. A study of trees and shrubs in the vicinity of the college with a view to identification under fall and

winter conditions. Students other than those studying agriculture will find this a useful course.

Lecture 1 hour, field 2 hours (2 credits); one semester.

18. Landscape Gardening. This course gives to the student an idea of some of the requirements for beautifying homes and parks by the proper planting of flowers, trees and shrubs. The various characteristics of plants are studied, with their grouping. Students are given some practice with the transit and level in the laying out walks, etc. Planting plans are required in field work.

WAUGH: Landscape Gardening

Lecture 1 hour, field 2 hours (2 credits); one semester.

31a-b. GENERAL FRUIT CULTURE. The problems and possibilities of fruit growing and fruit marketing; soil requirements and fertilization; the natural methods of propagation; production of seedlings for stock; grafting, budding and layering; the making of cuttings; special requirements for propagating and growing commercial fruits.

Lectures 2 hours, field work 2 hours (3 credits); two semesters.

- 32. FRUIT CULTURE. A more specialized course in fruit growing, with special reference to the lychee and lungan, the citrus fruits and the papaya. A analytical study of the Sapindaceae and Rutaceae families of plants is conducted with the object of enabling the student to classify properly the fruits of these families, and of showing the student the possibilities of using the near and wild relatives of these fruits in propagating and hybridizing. A study of varieties is included. Low-land fruit culture as practised in the delta regions of Kwangtung compared to hill culture as practised in the United States.

  Lectures 1 hour, field work 4 hours (3 credits); one semester.
- 36. Forest Practice. Propagation of forest trees; nursery methods and practices; the cultivation of wind breaks. Forest protection, etc. Bulletins and reference reading.

  Lectures 2 hours, field 2 hours (3 credits); one semester.

#### RELIGION

## PROFESSOR A. BAXTER.

Students may meet the requirement in Religion by electing from among the following courses offered the students in the College of Arts and Sciences:

- 1. CHRISTIAN ETHICS.
- 3a-b, COMPARATIVE RELIGION.
- 5a-b, OLD TESTAMENT HISTORY.
- 11, CHRISTIAN APOLOGETICS.
- 13, THE PERSON OF JESUS CHRIST.
- 31a-b, Religious History of China.

y6. This course consists of a study of the relation of man to God as manifested in agricultural service.

1 hour; one semester.

#### SERICULTURE

PROFESSOR C. W. HOWARD; MR. K. P. BUSWELL

For the work in Sericulture two large brick buildings have been provided. One is the gift of The Silk Association of America and is used as a rearing house and laboratory; the other is the gift of Mr. Marcus Frieder, The General Silk Importing Company, New York City, and is a dormitory for short course students. The buildings are well equipped for teaching modern scientific methods in rearing and caring for silk worms and their products; and especially for the production of disease-free silk worm eggs or "seed".

In addition to the regular college course in Sericulture arrangements can be made for advanced courses of study. Special emphasis is given to short courses for farmers. A small model farm house for rearing silk worms makes it possible to demonstrate better methods under conditions normal to the farmer. The production of silk worm egg-sheets on a commercial scale is a special feature of the work. These are marketed to the farmers. Extension work is also carried on among those needing instruction in rearing their worms.

There are also extensive mulberry fields and ample opportunity for instruction in mulberry culture and for experimental work on this crop in its relation to the production of silk.

31. The methods of producing silk in China and other countries. A study of the silk worm, its morphology,' life history, diseases, and enemies. Prerequisites: Biology 2 and 3.

# Register of Students

#### College of Agriculture

In the following register, the names are spelled according to the standard Cantonese romanization. The rank is that attained by the student at the beginning of Semester I, or on entrance. Se Senior (100 credits or more), Ju = Junior (65 to 99 credits), So = Sophomore (30 to 64 credits), Fr = Freshman (less than 30 credits), Su = Sub-freshman (of sub-collegiate grade). Under "Sessions," "S" indicates the student was enrolled in the Summer Session, "1" in First Semester and "2" in Second Semester.

Name	Original District	Rank	Suo Home Address
區子隆 Au Tsz Yam	南海	Su	1,2 Fatshan
屬英翔 Au Ying Tseung	新會	Su	S,1 Hongkong
陳桂生 Chan Kwai Shang	概縣	Su	1,2 Mui Yuen
鄭鳳桐 Cheng Fung Tung	東莞	Su	
朱志波 Chue Chi Kap	新會	Su	1,2 Canton
何同望 Hoh Tung Kwan	香山	Su	
何 亮 Hoh Leung	番禺		S,1,2 Honam
何汝佳 Hoh Yue Kai	南海	Fr	
何汝調 Hoh Yue Tung	南海	So	
甘汝登 Kam Yue Tang	陽江		S,1,2 Yeung Kong
古桂芬 Koo Kwai Fan	香山		1,2 Macao
關仲平 Kwaan Chung Ping	高明	Su	1,2 Canton
李作楫 Lei Tsok Tsap	台山		S, 1, 2 Toi Shan
李汝偉 Lei Yue Wai			1,2 Fatshan
羅當聖 Loh Tong Sing	開平	Su	
陸啓先 Luk Kai Sin	容縣	Fr	1,2 Yung Yuen, Sai.
馬文甲 Ma Man Kaap	香山		1,2 Hongkong
馬燦恩 Ma Tsaan Yan	高要	Su	1,2 Shiu Hing
吳顯照 Ng Hin Chiu	新安		1,2 Honolulu, T. H.
低啓聲 Ng Kai Shing	梅縣		1,2 Hongkong
柯天斧 Oh Tin Foo	福建		1,2 Sumatra
杜樹材 To Shue Tsoi	南海		1,2 Hongkong
杜樹桐 To Shue Tung	南海		S,1,2 Canton
唐漢基 Tong Hon Kei	香山		S,1 Hongkong
唐耀祖 Tong Iu Tso	恩平		1,2 Hongkong
謝樹邦 Tse Shue Pong	東莞		1,2 Shek Lung
章澤生 Wai Chaak Shang	香山	Fr	1,2 Hongkong

## REGISTER, 1921-22

溫耀文	Wan Iu Man Wong Chaak Po				Wuchow, Sai.
王慎初	Wong Shan Choh	番禺	Su	1,2	Honam Honam
胡寶楷	Wong Yau Cheung Wu Po Kaai	鶴山	Fr	1,2	Kaying Hongkong
英以權	Yeung Kwai King, Miss Ying Yi Kuen	新會	Fr	S, 1, 2	Macao Singapore
容顯宣容秉衡	Yung Hin Suen Yung Ping Hang				Hongkong Heung Shan

#### Six Months Course in Sericulture

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#### SUMMARY

	College of Agriculture
Seniors	4
Juniors	1
Sophomores	3
Freshmen	10
Sub-freshmen	18
Specials	0
Short Course	
	TOTAL 50

# Special Publications of the College

## BULLETINS ISSUED BY THE COLLEGE\*

- Bulletin No. 5. GROFF, G. W., Agricultural Reciprocity between America and China. Illustrated. 40 pp. \$0.20.
- Bulletin No. 12. GROFF, G. W., The Papaya for South China. Illustrated. 7 pp. 80 10.
  Chinese edition under title 水瓜. 8 pp. \$0.10.
- Bulletin No. 18. Levine, C. O., and Cadbury, W.W., A Study of Milk Produced in Kwangtung. 9 pp. \$0.10.
- Bulletin No. 20. The 1917-18 Journal of the Lingnaam Agricultural Society (in Chinese). 150 pp. \$0.20.
- Bulletin No. 23. Levine C. O., Notes on Farm Animals and Animal Industries in China. Illustrated. 54 pp. \$0.40
- Bulletin No. 25. GRAYBILL, H. B., Lawn Grasses for South China. 6 cuts, 6 pp. \$0.20.
- Bulletin No. 27. Levine, C. O., Butchering and Curing Meats in China. 9 cuts, 41 pages. \$0.20.
- Vol. III, No. 4, The Lingnaam Magazine (in Chinese). Miscella-1919 neous agricultural articles.
- Vol. IV, No. 1, The Lingman Magazine (in Chinese). Miscella-1920 neous agricultural articles.
- Vol. IV, No. 4, The Lingnaam Magazine (in Chinese). December, 1920. Entire issue.
- Vol. V, No. 4, The Lingnaam Magazine (in Chinese). 4th issue, 1921. Entire issue.

## TEXTS ISSUED BY THE COLLEGE

- GROFF, G. W., The Lychee and Lungan. Canton, 1921, Canton Christian College. 60 Illustrations. \$5.00.
- \* A list of the general publications, catalogues, etc., descriptive of the Canton Christian College is given, elsewhere in this catalogue, on page 17.